Product Description

Model YZ104 is a Type Y or Z pressurization unit designed to protect electrical equipment in Class I Hazardous Areas. When connected to a supply of protective gas and utilized in conjunction with a Model PV-4 Spark Arresting Purge Vent, the Model YZ104 will supply, regulate and monitor the protective gas supply to a protected electrical enclosure and accomplish purging of the protected enclosure in an expedited manner. Type Z applications reduce the hazardous area rating inside the enclosure from Division 2 / Zone 2 to Unclassified. This allows general purpose equipment to operate in Division 2 / Zone 2 areas. Type Y applications reduce the hazardous area rating inside the enclosure from Division 1 / Zone 1 to Division 2 / Zone 2. This allows Division 2 / Zone 2 equipment to operate in Division 1 / Zone 1 Hazardous Areas.

Unit Operation

Prior to Start-Up: Ensure Protected Enclosure Power is OFF, Protective Gas Supply is ON, Filter Regulator is set to 60 PSI, and alarm system is activated (if utilized). Test Purge Vent for proper operation. Start-Up: Close and seal Protected Enclosure. Open Enclosure Pressure Control Valve until a "Safe" reading is shown on the Enclosure Pressure Gauge. Open Purge Control Value and allow unit to purge protected enclosure for the required time marked on Unit Start Up Instructions or for 5 minutes, minimum and then close Purge Control Valve. Confirm protected enclosure "Safe" pressure is stable. Energize protected enclosure equipment. Loss of "Safe" pressure requires immediate attention. De-energized power if "Safe" pressure cannot be restored within a reasonable amount of time.

Product Specifications

250 cubic feet Maximum Enclosure Volume: Universal Unit Weight: 14.0 lbs. Vertical & Horizontal Unit Weights: 17.5 & 18.0 lbs. Operating Temp. Range: -20° F - 120° F * Air or Inert Gas Protective Gas Supply: Unit Supply Pressure: 80 - 125 psi maximum **Unit Supply Connection:** 1/2" tube fitting 1/2" tube fitting **Enclosure Supply:** 1/4" tube fitting Enclosure Reference: Safe Enclosure Pressure: 0.25" w.c. ** 0.1 - 3.5 SCFH per cubic foot Safe Pressure Flow Rate: ** 5" - 8" w.c. Purging Enclosure Pressure: Purging Flow Rate: 30 SCFM / 1800 SCFH @ 60 psi 4 Volume Purge Time: 1 minute per 7.5 cubic foot 5 Volume Purge Time: 1 minute per 6.0 cubic foot Switch Set Point on Decrease: 0.15" w.c. ± 0.02" Pressure Switch Conduit Port: 1/2" FPT See EPSK Bulletin Pressure Switch Contact Ratings:

- * Air must contain no more than trace amounts of flammable vapors.
- ** Enclosure integrity determines safe pressure flow rate and purging enclosure pressure.

Required Accessory

A Model PV-4 Spark Arresting Vent is required for proper operation of the purging cycle and to protect the enclosure from excessive pressure of the protective gas supply in accordance with the requirements of NFPA 496, EN 50016 and IEC 60079-02.

Best Purging Systems Corporation therefore requires the purchase of a Model PV-4 Spark Arresting Purge Vent with this unit for installation on the protected enclosure or the last enclosure of an enclosure array.



Model YZ104

Type Y & Z Purging & Pressurization Unit

Class I Applications Up To 250 Cubic Feet

Technical Bulletin YZ104 TB-R0

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Universal Mount Unit less Pressure Switch for any side or panel mounting



Vertical Mount Unit with Pressure Switch for left or right side mounting





Horizontal Mount Unit with Pressure Switch for top or bottom side mounting



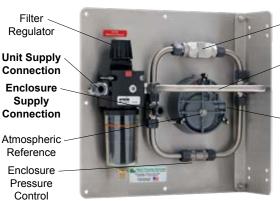
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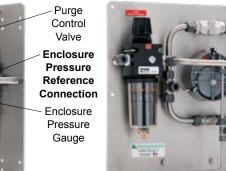
Rear Views



Horizontal Mount Unit with Pressure Switch



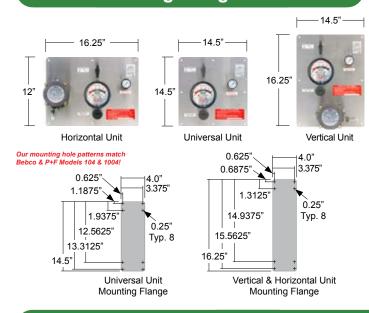
Universal Mount Unit less Pressure Switch



Vertical Mount Unit with Pressure Switch

Unit & Mounting Flange Dimensions

Valve



Model Number Matrix

Typical Model Number: Unit Type - Division 1 / Zone 1 to Division 2 / Zone 2 - Division 2 / Zone 2 to Unclassified Unit Series - Purging & Pressurization Unit Area Classification -- Class I **Pressure Switch Option** L - Less Switch W - Class I, Group C & D Switch - Class I, Group A, B, C & D Switch **Mounting Configuration** Universal V - Vertical H - Horizontal Group B Switch Voltage (omit if not applicable)

Please contact a Sales Associate for specifications and factory integration of Model PMGK Panel Mount Gasket Kits for Universal Mounting Configurations

240 - 240 VAC

120 - 120 VAC

Material Specifications

Mounting Plate, Flange & Atmospheric Reference: 304 Stainless Steel 316 Stainless Steel Valve & Fitting Bodies, Ferrules & Unit Fasteners: Tube Fitting Compression Nut Coating: Molybdenum Disulfide Enclosure Pressure Gauge Lens: Acrylic w/ Neoprene O-Ring Enclosure Pressure Gauge Body: Cast Aluminum w/ Epoxy Finish Fastener Kit Sealing Screws: 316 Stainless Steel w/ Neoprene O-Ring Fastener Kit Sealing Washers: 18-8 Stainless Steel w/ Neoprene Washer Fastener Kit Locking Nuts: 316 Stainless Steel w/ Nylon Insert Atmospheric Reference: 316 Stainless Steel Body & 304 SS Element 3M Lexan™ w/ 3M VSB™Adhesive Indelible Unit Nameplates: Supply Regulator Head & Bowl: Acetal Polymer Plastic Supply Regulator Body: Zinc w Buna N Elastomers Supply Pressure Gauge: Painted Steel Case, Plastic Lens, Brass Body

Cast Aluminum w/ Epoxy Finish Pressure Switch Body: Pressure Switch Bolts & Contacts: Zinc Plated Steel & Mica Silver Enclosure Pressure Gauge & Switch Diaphragms: Flurosilicone

Unit & Protected Enclosure Accessory Hyperlinks



Model PV **Spark Arresting Pressure Vents** Prevents excessive enclosure pressure upon unit regulator failure



Model BCK Unit & Bulkhead **Connection Kits** Connects the unit and multiple protected enclosures of an array



Model RAB & RAH **Remote Alarm Beacons & Horns** Signals loss of protected enclosure

safe pressure



24 - 24 VDC

Model EPSK **Enclosure Pressure** Switch Kits

Complements universal mount units to activate audible or visual alarms



Model EPWN & ETWN **Warning Nameplates**

Pressure & Temperature Provides NFPA required markings for protected

enclosure doors and covers



Model PMGK **Panel Mount Gasket Kits** Converts universal mount units for panel mounting in

protected enclosures

One (1) Model EPWN Enclosure Warning Nameplate & One (1) Unit Flange or Panel Mount Fastener Kit furnished with all Units. All specifications subject to change without notice. Warranty & Liability policies available upon request.